

Font Card Kit User's Guide

(For use with Hewlett-Packard LaserJet 4014, 4015, and 4515 Series Printers)

Acknowledgements Some of the TROY products include cryptographic software written by Eric Young (eay@cryptsoft.com) The Twofish encryption/decryption source code used in the TROY Font Card is provided by Crytopane.

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Preface

This manual is designed and formatted for use as an online document (viewed on your computer screen). For best results, use Adobe Acrobat Reader 7.0 or higher to view or print this document. Using earlier versions of Adobe Acrobat Reader to view or print this document may not produce a properly formatted document on your computer screen. The latest version of Adobe Acrobat Reader is available as a free download from the Adobe website at http://www.adobe.com.

Conventions

This User's Guide uses these conventions:

Bold indicates emphasis or a minor heading.

Italic refers to a document title or is used for emphasis.

COURIER type indicates text visible on a computer screen or keys on your computer keyboard.

The letter λ is used in examples to distinguish the small letter 1 from the numeral 1 (one).

The character Ø is used in examples to distinguish the letter O from the numeral 0 (zero).

<Esc>, <CR>, <LF>, <FF>, etc. are control characters. Use a text editor to enter the equivalent of the character. For example, to get <Esc> using a DOS text editor, hold down the **Ctrl** key; and press the **I** (left square bracket) key. Other text editors may vary.

NOTE: Notes contain important information set off from the text.

CAUTION: Caution messages appear before procedures, which, if not observed,

could result in loss of data or in damage to equipment.

WARNING: Warning messages alert you to a specific procedure or practice,

which, if not followed correctly, could cause serious personal injury.



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Introduction

Thank you for purchasing your TROY Font Card Kit. You have chosen the highest quality MICR (Magnetic Ink Character Recognition) printing solution available today that offers convenience, flexibility, and precision for printing high-quality MICR documents.

The TROY Font Card Kit includes the TROY Font Card and a specially formulated TROY MICR toner cartridge designed to meet or exceed all ANSI MICR printing standards. The TROY Font Card features an enhanced collection of MICR, OCR, and security fonts designed for printing financial documents. The TROY Font Card can be installed in a standard HP 4014, 4015, or 4515 LaserJet printer to provide MICR printing capabilities. Each TROY Font Card is designed for a specific HP printer and is not interchangeable between printer models. Refer to the *TROY Font Card Kit Quick-Start Guide* for information on installing the necessary TROY support files. Refer to the Appendix in this manual for installing the TROY Font Card into a compatible HP printer.

TROY Security Fonts

Your TROY Font Card Kit includes a collection of high-quality MICR fonts (E13-B, CMC-7) and other security fonts programmed into the TROY Font Card. See Section 3 – *Using TROY Fonts* for more information. The TROY Security font collection includes the following fonts:

TROY Font	Description
E13-B MICR Font	Used to print the MICR line at the bottom of the check (United States and selected countries)
CMC-7 MICR Font	Used to print the MICR line at the bottom of the check (if your bank of deposit requires this font)
Enhanced Convenience Font	Used to print the convenience amount information on the check (this font is scalable)
Large Convenience Font	Used to print the convenience amount information on the check (this font is non-scalable)
Small Convenience Font	Used to print the convenience amount information on the check (this font is non-scalable)
TROY Reverse Helvetica Font	Used to print names and addresses on the back of transparent envelope windows for use in pressure-seal machines
British Pound and Euro Currency Symbols	Used as the British or European currency symbol for the respective country (replaces the U.S. dollar sign). These symbols can be selected to print in the audit reports. The decimal point or comma (default) can be selected.
TROY Barcode and POSTNET Fonts	Used to print several types of industry-standard barcodes for a variety of uses, and also includes a POSTNET font for printing the U.S. postal bar code that represents the 9-digit zip code printed below the postal address
TROY Security Font	Used to print the amount information on the check (English / Spanish) (this font is scalable)
TROY OCR Font (type A and B)	Used to print any information (names, addresses, amounts) that is to be read by automated readers using optical character recognition (this font is scalable)
International Convenience Fonts	Used to print the convenience amount on the check in any one of five languages (available on the TROY Security Printing Solutions CD supplied with your TROY Font DIMM Kit)



Using the TROY Printer Utility

Introduction

The TROY Printer Utility is an easy-to-use Microsoft Windows-based utility designed to assist you with the management of a TROY Font Card. The TROY Printer Utility allows the system administrator to perform the following functions:

- View system information
- Print Windows Security and Barcode demonstration pages
- Print PCL Security/Barcode Font demonstration page
- Obtain technical assistance
- Access the TROY Web site for printer firmware updates, drivers, and product/supplies information.

The TROY Printer Utility is included on the **TROY Font Card Kit** CD supplied with your TROY Font Card Kit. Follow the instructions in the *TROY Font Card Kit Quick-Start Guide* to install the TROY Printer Utility.

Menu **Structure**

The user-friendly features of the TROY Printer Utility are conveniently grouped under three pull-down menus as shown below. An arrow (>) next to the menu selection indicates that additional selections are available for that menu item. It is suggested that you print out this page for use as a convenient reference when using the TROY Printer Utility.

TROY Printer Utility Menu Tree

Install New Resources ▶

FILE

RESOURCES

TROY Printer Utility Help F1

Print ► Windows Security Font Demo

Fonts

TROY on the Web Macros/Forms

Windows Barcode Font Demo PCL Security/Barcode Font Demo

System Information

Download File

Firmware Update

Technical Support

Exit

About

HELP

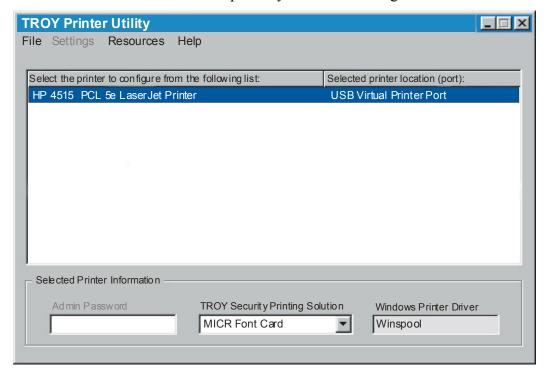
NOTE: The grayed-out menu items displayed in the TROY Printer Utility menus are for features that apply only to TROY printers and Hewlett-Packard printers that have the TROY MICR Secure DIMM installed.



Basic Printer Utility Operations

TO ACCESS THE TROY PRINTER UTILITY:

- 1. Click on the Microsoft Windows *Start* button, select *Programs*, *MICR by TROY*, and then click on the *TROY Printer Utility* icon. The Printer Utility main window will appear.
- 2. Click on the Hewlett-Packard printer you wish to manage.



3. Select MICR Font Card from the TROY Security Printing Solution drop-down menu. For convenience, this setting is saved when you exit the TROY Printer Utility. This option simplifies the TROY Printer Utility interface by allowing access to features that are only available within your product type.



Printing Demo Pages

Accessing Fonts Using Non-Windows Applications

Verifying Windows Font Support The TROY Printer Utility provides the ability to generate a Windows Security Font, Windows Barcode Font, and PCL Security/Barcode Font demonstration page. Use the Windows Security Font demonstration page if you are using a Windows-based printing application, or use the PCL Security/Barcode Font demonstration page if you are using a non-Windows-based printing application. Use these demonstration pages to verify the TROY Security fonts generated by your printer.

If you are using a non-Windows application to print MICR documents, the escape sequence for each font must be programmed into the application in order to "call" each of the selected fonts. The <Esc> character is ASCII character number 27 (hexadecimal number 1B). Refer to Section 3 – *Using TROY Fonts* for the specific escape sequence (displayed above each character map) used to call each of the TROY fonts.

To verify that the TROY Windows font support files were properly installed on your system, demonstration documents are provided through the TROY Printer Utility in Windows that can be printed out to visually identify all security and/or barcode fonts downloaded to the TROY printer. Make sure your TROY printer is properly setup, powered ON, and is online before printing the Windows Security Font or Windows Barcode Font Demonstration page(s).

TO PRINT THE WINDOWS SECURITY (MICR) FONT DEMONSTRATION PAGE:

- 1. From the *Main Window*, click on the printer you wish to manage.
- 2. From the *Main Window*, click on *File*, *Print*, and then click on *Windows Security (MICR) Font Demo*. The printer will automatically print the Windows Security Font Demonstration page (see example on next page).
- 3. Compare the actual TROY security fonts (the actual fonts generated by your printing system) shown in the right-hand column with the facsimile image of these fonts printed in the center column (a digitized image designed to look exactly like the actual fonts generated by your system see example on the next page).
 - If the support files were properly installed, the actual TROY security and/or barcode fonts displayed in the right-hand column should appear identical to the facsimile fonts displayed in the center column. If the actual fonts do not match the facsimile fonts printed on the demonstration document (fonts not printed correctly or fonts missing on the printout), review the installation steps in this document. If further assistance is required, contact TROY Technical Support.



Verifying Windows Font Support (cont.)

TROY Security Font Collection

Microsoft Windows Test Page

This document displays how the TROY Security Font Collection should appear when printed through Microsoft Windows (Facsimile Font Image) and how they actually print through your Microsoft Windows printer driver configuration (Actual Printed Font) to a TROY Security Printing Solution.

Compare the fonts printed in the Facsimile Font Image column of this page to the fonts printed in the Actual Printed Font column. If the Windows support files (.HPD) were properly installed into the Hewlett Packard PCL 5e printer driver, the fonts in the two columns should match. If the fonts in both columns do not match (fonts in the Actual Printed Fonts column not printed correctly or missing from this page), review the Windows Support File installation steps in the user documentation. If further assistance is needed, please contact TROY Group Technical Support Department at 1-800-332-6427 or 1-949-250-3280, or e-mail techsupport@troygroup.com.

Font Name	Facsimile Font Image	Actual Printed Font
TROY E-13B	1234567890	1234567890
TROY CMC7	4234567890	1234567690
TROY ECF	O 1 2 3 4 5 6 7 8 9 0 ZERO ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO	O 1 2 3 4 5 6 7 8 9 0 ZERO ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO
TROY LCF	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0
TROY SCF	1 2 3 4 5 6 7 8 9 0	1 2 3 4 5 6 7 8 9 0
TROY HELV Rev	1234567890	1234567890
TROY MICRO	MP MP MP	MP MP
TROY OCRA	1234567890ABCD	1234567890ABCD
TROY OCRB	1234567890ABCD	1234567890ABCD
TROY Security		4/2/4/5/67/2:010



Verifying PCL 5e Communication

The PCL Security/Barcode Font demonstration page can be used to verify PCL 5e communication between the host computer and your printer. If the PCL 5 communication between the host computer and your printer is successful, then the selected demonstration page should print out exactly as shown in the example below.

TO PRINT THE PCL SECURITY/BARCODE FONT DEMONSTRATION PAGE:

- 1. From the *Main Window*, click on the printer you wish to access.
- 2. Type in the current administrator password in the password box at the bottom of the *Main Window*. If a password is not set, then leave the password box blank.
- 3. From the *Main Window*, click on *File*, *Print*, and then click on *PCL Security/Barcode Font Demo*. The printer will automatically print the PCL 5e Security/Barcode Font Demonstration pages (see example below).

TROY MICR FONTS

PCL 5e Font Demo Page (non-Microsoft Windows)

Font Name	PCL5e Font Call Escape Sequence	Print Example				
TROY E-13 *	<esc>(0Q<esc>(s1p12.0v0s0b0T <esc>(0Q<esc>(s0p8.00h8.8v0s0b0T</esc></esc></esc></esc>	1234567890:://////1234567890:://///				
TROY CMC7 *	<esc>(0Q<esc>(s1p12.0v0s0b1T <esc>(0Q<esc>(s0p8.00h8.8v0s0b1T</esc></esc></esc></esc>	1234567890/mmi41234567890/mmi4				
TROY ECF *	<esc>(3Q<esc>(s1p<height>v0s0b0T <esc>(3Q<esc>(s1p18v0s0b0T</esc></esc></height></esc></esc>	12345678900123456789 \$ * ,				
TROY LCF	<esc>(1Q<esc>(s0p5.01h16.0v0s0b0T</esc></esc>	1 2 3 4 5 6 7 8 9 0 \$ $\stackrel{\leftarrow}{c} \in \stackrel{\leftarrow}{c} = *$				
TROY SCF	<esc>(2Q<esc>(s0p6.00h22.0v0s0b0T</esc></esc>	1 2 3 4 5 6 7 8 9 0 \$ € € * , me two times four five six sevik Edit Me 210 BOLLAR EURO AIX COM				
TROY Micro Font	<esc>(10U<esc>(s0p80h.8v0s33b0T</esc></esc>					
TROY Helvetica (Rev)	<esc>(0Y<esc>(s1p<height>v0s33b24580T</height></esc></esc>	1234567890ABCDEFGHIJKLMnopqrstuvwxyz				
TROY OCR-A	<esc>(0O<esc>(s1p<height>v0s0b104T</height></esc></esc>	1234567890ABCDEFGHIJKLMnopqrstuvwxyz				
TROY OCR-B	<esc>(10<esc>(s1p<height>v0s0b110T</height></esc></esc>	1234567890ABCDEFGHIJKLMnopqrstuvwxyz				
TROY Security	<esc>(4Q<esc>(s1p<height>v0s0b0T</height></esc></esc>	1234567890 . <i>¢</i> \$€&,				



Downloading Files to the Printer

The TROY Printer Utility provides the ability to download any PCL or text file directly to the printer without embedding additional information. A download option is provided to enhance the download file (see the **Download File** window for the specific option). To include the advanced option to the download, place a checkmark next to the option. The advanced download option is provided for advanced users only.

TO DOWNLOAD A FILE TO THE PRINTER:

- 1. From the *Main Window*, click on the printer you wish to manage.
- 2. From the *Main Window*, click on *File*, and click on *Download File*.
- 3. Enter the file name or click on *Browse* to locate the desired file.
- 4. <u>For advanced users</u>: Place a checkmark next to the download option if you wish to include the additional data with the download file. For normal use, it is recommended that the checkbox be left blank.
- 5. Click on **Download** to send the file to the printer's memory. Click on **OK** to finish.
- 6. Click on **OK** to continue.



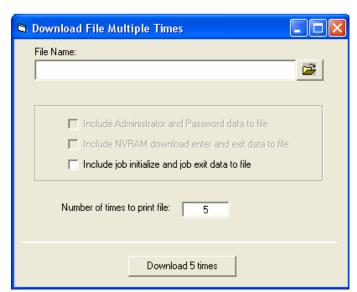


Downloading Files to the Printer (cont.)

The multiple download feature allows you to specify the number of times to download a single file to the printer without having to repetitively initiate the download process and respond to confirmation prompts. The multiple download feature is useful for testing purposes. To include the advanced option to the download, place a checkmark next to the option. *The advanced download option is provided for advanced users only*.

TO REPEATEDLY DOWNLOAD OF A FILE TO THE PRINTER:

- 1. From the *Main Window*, click on the printer you wish to manage.
- 2. Type in the current administrator password in the password box at the bottom of the *Main Window*. If a password is not set, then leave the password box blank.
- 3. From the *Main Window*, click on *File*, and click on *Multiple Download*.
- 4. Enter the file name or click on *Browse* to locate the desired file.
- 5. <u>For advanced users</u>: Place a checkmark next to the download option if you wish to include the additional data with the download file. For normal use, it is recommended that the checkbox be left blank.



- 6. Enter the number of times to download the file (the default is 5), and then click on **Download** to send the file to the printer's flash-file memory multiple times. Multiple downloads can be specified from 0 to 5000. Click on **OK** to finish
- 7. Click on **OK** to continue.



Obtaining Technical Assistance

The TROY Printer Utility provides several help screens to guide you through the features and functions of your TROY Font Card. TROY technical support is available to assist you with any questions concerning the setup, operation, and maintenance of your TROY Font Card. Specific system information about the configuration of your TROY product is also available through the TROY Printer Utility. You are also encouraged to visit the TROY web site for latest FAQs (Frequently Asked Questions), information on the latest TROY products, and for ordering MICR toner and other printing supplies.

TO VIEW TECHNICAL SUPPORT INFORMATION:

From the *Main Window*, click on *Help*, and then click on *Technical Support* to view the TROY Technical Support HTML page for telephone numbers and hours of business.

TO VIEW INFORMATION ON THE TROY WEB SITE:

From the *Main Window*, click on *Help*, and then click on *TROY on the Web* to access the TROY web site. Click on the *Services and Support* button at the top of the web page to view the available topics. You can access the TROY web site directly at http://www.troygroup.com.

TO VIEW ON-SCREEN HELP FOR THE TROY PRINTER UTILITY:

From the *Main Window*, click on *Help*, and then click on *TROY Printer Utility Help F1* to view the Printer Utility help documents. You can press the *F1* key at any time while using the TROY Printer Utility to access the help screens.

TO VIEW INFORMATION ABOUT THE PRINTER UTILITY:

From the *Main Window*, click on *Help*, and then click on *About* to view the version level and other information about the TROY Printer Utility.

TO VIEW SYSTEM INFORMATION:

From the *Main Window*, click on *Help*, and then click on *System Information* to view the version level and other information about your computer and printer's hardware and software environment.



Introduction

The TROY MICR E-13B and CMC-7 MICR fonts have been specifically engineered for your TROY Security Printing Solution to ensure the highest quality MICR printing in the industry. The TROY font collection provides seamless integration and security within your Windows-based check printing application. All TROY fonts are permanently programmed into the TROY Font Card to ensure consistent high-quality MICR printing and to prevent unauthorized use of these fonts on another printing system. Your TROY Security Printing Solution includes the following fonts:

- TROY MICR Font (E-13B and CMC-7)
- TROY Security Font (English and Spanish)
- TROY Convenience Fonts (Enhanced, Large and Small)
- TROY Reverse Helvetica Font
- TROY OCR Fonts (type A and B)
- British Pound and Euro symbols
- TROY POSTNET and Barcode Fonts (not available for TROY 2300 Font DIMM Kits)

Accessing and Using TROY Fonts

The following paragraphs provide some basic information for accessing and using the TROY fonts. It is important that these fonts are kept secure to prevent unauthorized use and that the fonts remain unaltered to ensure accurate rendering by your printer. All TROY fonts are permanently programmed into the TROY Font Card and cannot be directly accessed through external means.

Accessing TROY Fonts Using Windows Applications To access the TROY fonts in a Windows environment, you must first install the Windows printer driver for your HP 4014, 4015, or 4515 LaserJet printer. Follow the instructions in *TROY Font Card Kit Quick-Start Guide* to install the printer driver and Windows support files, enabling you to select these fonts from any Windows-based application. To print the TROY E13-B and CMC-7 MICR fonts, your printer must be set to MICR enabled mode, and a TROY MICR toner cartridge must be installed in the printer. Many commercial MICR check-printing applications are pre-programmed to access the TROY MICR fonts.

Accessing TROY Fonts Using Non-Windows Applications If you are using a non-Windows application to print MICR documents, the escape sequence for each font must be programmed into your check-printing application in order to "call" each of the selected fonts. The <Esc> character is ASCII character number 27 (hexadecimal number 1B). Refer to the end of this section for each escape sequence (displayed above each character map) used to call each TROY font.



Section 3

Using TROY Fonts

Using the TROY E-13B MICR Font

The E-13B MICR font (TROY E-13B) can be used for printing the MICR line in many countries, including the United States. In some European and Latin American countries, the CMC-7 MICR font is used instead. TROY can provide customer support for your MICR applications only if you use the supplied TROY MICR fonts.

Using the TROY CMC-7 MICR Font

The CMC-7 MICR font (TROY CMC-7) can be used for printing the MICR line in many countries, including some European and Latin American countries. TROY can provide customer support for your MICR applications only if you use the supplied TROY MICR fonts.

Using the Convenience Amount Fonts

Your TROY Security Printing Solution includes a large, small and enhanced convenience amount font (TROY ECF, TROY LCF, TROY SCF). These fonts consist of numbers with their alphabetic spellings placed directly below the numerical character. These fonts are designed for use in the *Legal Amount* field only (located directly below the *Payee* field). You can enter alphanumeric symbols representing the amount of the check into this field.

Using the TROY Security Font

The TROY Security font (TROY SECURITY, TROY SECURITY SPANISH) is designed to prevent fraudulent alteration to the *Amount* field on the check. The font consists of numbers with their alphabetic spellings placed directly below the numerical character with a wavy lined pattern running through each character. These fonts are designed for use in the *Legal Amount* field only (located directly below the *Payee* field on the check). You can enter numeric symbols representing the amount of the check into this field. During document processing, convenience amounts may be visually read and encoded on the check by bank personnel. In this case, a large *Convenience Amount* font may best meet your bank's requirements.

Using the TROY OCR Fonts

The TROY OCR fonts (TROY OCR-A AND TROY OCR-B) are used to print any information (names, addresses, amounts) on the check that is to be read by automated readers using optical character recognition.

Using the Reverse Helvetica Font The TROY Reverse Helvetica font is used to print names and addresses on the back of transparent envelope windows for use in pressure-seal machines.

Using the TROY POSTNET Font

The POSTNET (Postal Numeric Encoding Technique) font (TROY POSTNET) is used to represent the nine-digit postal zip code below the postal address line. Using the POSTNET font on your mailing envelopes and postcards will significantly decrease postal processing time and reduce the chance of errors when manual data entry is required at the post office.

Using the British Pound and Euro Symbols The British Pound and European currency symbols are used in place of the U.S. dollar sign for the respective European country and can be selected to print in the audit reports. A decimal point or comma can be selected for use with these currency symbols.



Using TROY Fonts

Using Printer Fonts and Screen Fonts

In addition to the TROY printer that permanently fonts are programmed into the TROY Font Card, the TROY screen fonts have been developed for screen display use only as a visual reference and for making positional adjustments to the MICR line. The TROY screen fonts display differently than the actual printer fonts in order to prevent unauthorized printing using the MICR screen fonts on other Windows-installed printers.

If the E-13B MICR screen font is used for printing, the inversely printed (white characters on a black background) MICR screen font will not be readable by the bank reader/sorter machines. The uniquely displayed screen fonts ensure that the MICR font printed on your MICR documents is generated by the TROY Font Card and not by the Windows operating system using the resident TrueType[™] font. The TROY screen fonts are provided on the TROY Font Card Kit CD supplied with your TROY product.

TROY E-13B Screen Font:

TROY CMC-7 Screen Font:

TROY LCF Screen Font:

TROY SCF Screen Font:

TROY ECF Screen Font:

TROY Security Screen Font:

TROY Messaging Screen Font:

TROY AutoProtect Screen Font:

TROY OCR-A Screen Font:

TROY OCR-B Screen Font:

TROY Reverse Helvetica Screen Font:

TROY Microprint Screen Font:

TROY Code 128 Screen Font:

TROY Code 2 of 5 Screen Font:

TROY Code 3 of 9 Screen Font:

TROY EAN-8 Screen Font:

TROY EAN-13 Screen Font:

TROY POSTNET Screen Font:

TROY Reverse POSTNET Screen Font:

TROY UPC-A Screen Font:

TROY UPC-E Screen Font:

0123456789444

0423456789744114

0123456789

0123456789

0123456789

042324567489

A Message For You

VOID VOID VOID

ABCDEFGHIJKLMNOP@RSTUVWXYZ

ABCDEFGHIJKLMNOP@RSTUVWXYZ

<u>ABCDEFGHIJKLMNOPQRSTUVWXYZ</u>

0 1 2 3 4 5 6 7 8 9 2

|15|16|17|18|19|20|21|22|23|24|

0 1 2 3 4 5 6 7 8 9

012345678901

012345678901

0 1 2 3 4 5 6 7 8 9

0 1 2 3 4 5 6 7 8 9

012345678901

012345678901



MICR Font Guidelines

The TROY E-13B and CMC-7 MICR fonts were developed using strict specifications designed specifically for high-speed magnetic-read processing. To maintain these strict specifications, the TROY MICR fonts were designed as non-scalable fonts (fixed fonts) that are fixed in pitch (spacing) and point size (height). Because Windows TrueType technology allows fonts to be scalable by changing the point size, it is imperative to maintain the 12-point size of the MICR fonts installed in Windows. Selecting a point size other than 12-point for the MICR font in Windows will not visibly enlarge or reduce the size of the characters; however, the horizontal spacing will be affected. Any alteration to the spacing of the characters will result in incorrect placement of the MICR characters in the MICR line at the bottom of your checks, causing your financial documents to be rejected by the bank.

The Convenience Amount fonts were also designed as non-scalable fonts, but can be changed (increased or decreased) from the default point size to meet your check printing requirements. Changing the point size of a fixed font in Windows will only affect the horizontal spacing of the characters and not affect the vertical size of the characters. The TROY Enhanced Convenience Amount font and TROY Security font were designed as scalable fonts that can be changed (increased or decreased) from the default point size to meet your check printing requirements.

NOTE: It is highly recommended that you verify the MICR line at the bottom of your printed checks using the TROY MICR Document Template (p/n 54-17373-001) to verify the positioning of each character. Refer to the TROY MICR Basics Handbook for details (provided in PDF format on the TROY Font Card Kit CD.



Font Character Mapping

Each character or symbol in a font set corresponds to a specific ASCII (American Standard Code for Information Interchange) number (e.g., the capital letter "A" = ASCII number 65). Pressing a key on your computer keyboard automatically generates the ASCII number (32 through 127) associated with the character or symbol displayed on the key. Likewise, any character or symbol <u>not</u> represented on your computer keyboard (ASCII numbers above 127) can be accessed by manually entering the associated ASCII number using the numeric keypad.

The fonts provided on the *TROY Font Card Kit* CD have each of the characters and symbols in each font set (shown on the following pages) "mapped" (associated) to standard computer keyboard characters using the corresponding ASCII number for each character and symbol on the keyboard.

For example, the transit symbol (one of the industry-standard symbols used in a MICR line at the bottom of a check) contained in the TROY E-13B MICR character table (shown on page 3-8) does not exist on a standard computer keyboard but has been "mapped" to the standard ASCII keyboard capital letter "A", designated as ASCII number 65.

Therefore, after loading and then selecting the TROY E-13B MICR Font, typing the capital letter "A" on your computer keyboard will produce the MICR transit symbol instead of the capital letter "A". The TROY E-13B MICR character table (shown on page 3-8) associates the transit symbol with ASCII number 65 (the same ASCII number used for the capital letter "A" if you had selected a standard ASCII font set instead of the TROY E-13B MICR font set).

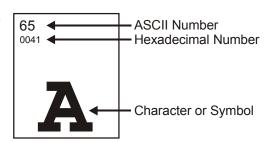


Determining a Character Mapping

Accessing Unmapped Characters

To determine which key on your computer keyboard that a TROY character or symbol is "mapped" to, simply compare the ASCII number of the selected TROY character or symbol to the same ASCII number listed in the **Standard ASCII Character Map** (shown on the next page) to determine which keyboard key can be used to access the selected TROY character or symbol.

Some of the font sets provided on the *TROY Font Card Kit* CD contain more characters or symbols than can be "mapped" to the available keys on a standard computer keyboard. In this case, these characters can be accessed by manually entering the ASCII number (see example at right) designated for each character (refer to the character tables on the following pages). The hexadecimal number shown below the ASCII number is used for programming mainframe computers.



To access a character or symbol that is <u>not</u> "mapped" to one of the keys on your Windows computer keyboard, you can manually enter the ASCII number by holding down the **ALT** key on your keyboard, entering the associated ASCII number for the character you wish to access, and then releasing the **ALT** key.

<u>NOTE</u>: You <u>must</u> use the numerical keypad on your keyboard to enter the ASCII number. The number keys along the top of the keyboard will not work for this application.



Standard ASCII Character Set (reference only)

24	25	26	27	28	29	30	31	32 0020	33 0021	34 0022	35 0023 ##
36 0024 \$	37 0025 0/0	38 0026 &	39 0027	40 0028	41	42 002A	43 002B	44 002C	45 002D	46 002E	47 002F
48 0030	49 0031	50 0032 2	51 0033 3	52 0034 4	53 0035 5	54 0036 6	55 0037 7	56 0038 8	57 0039 9	58 003A	59 003B
60 003C	61 003D	62 003E	63 003F	64 0040	65 0041	66 0042 B	67 0043	68 0044	69 0045	70 0046	71 0047
72 0048	73 0049	74 004A	75 004B	76 004C	77 004D	78 004E	79 004F	80 0050	81 0051 Q	82 0052 R	83 0053 S
84	85 0055	86	87 0057 V	88 0058	89	90 005A	91 005B	92 005C	93 005D	94 005E	95 005F
96 0060	97 0061	98 0062 b	99 0063 C	100 0064	101 0065	102 0066	103 0067	104 0068	105 0069	106 006A	107 006B
108 006C	109 006D	110 006E	111 006F	112 0070	113 0071	114 0072	115 0073	116 0074 t	117 0075	118 0076	119 0077
120 0078	121 0079	122 007A Z	123 007B	124 007C	125 007D	126 007E	127	128	129	130	131



TROY MICR E-13B 12-Point Font (Troy E-13B)

<Esc>(ØQ<Esc>(s1p12vØsØbØT

24	25	26	27	28	29	30	31	32 F020	33	34	35
36 F024	37	38 F026	39	40	41	42	43	44 ;	45 F02D	46	47 F02F
48 F030	49 F031	50 F032	51 F033	52 F034	53 F035	54 F036	55 F037	56 F038	57 F039	58 F03A	59 F03B
60	61 F03D	62	63	64	65 F041	66 F042	67 F043	68 F044	69	70	71
72	73	74	75	76	77	78	79 F04F	80	81	82	83
84 F054	85	86	87	88	89	90	91	92	93	94	95
96	97	98	99	100	101	102	103	104	105	106	107
108	109	110	111 F06F	112	113	114	115	116 F074	117	118	119



TROY MICR CMC-7 12-Point **Font**

(Troy CMC7)

<Esc>(ØQ<Esc>(s1p12vØsØb1T

24	25	26	27	28	29	30	31	32 F020	33	34	35
36	37	38	39	40	41	42	43	44	45	46	47
48 F030	49 F031 	50 F032 	51 F033 	52 F034 	53 F035 	54 F036 	55 F037	56 F038 	57 F039 	58	59
60	61	62	63	64	65 F041	66 F042	67 F043 	68 F044 	69 F045	70	71

TROY Enhanced Convenience **Amount Font** (Troy ECF)

<Esc>(3Q<Esc>(s1p \square vØsØb1ØT \square = desired point size

24	25	26	27	28	29	30	31	32 F020	33	34	35
36 F024	37	38	39	40	41	42 F02A	43	44 F02C	45	46 F02E	47
48 F030	49 F031	50 F032 2 TWO	51 F033 THREE	52 F034 FOUR	53 F035	54 F036	55 F037	56 F038	57 F039	58	59
60	61	62	63	64	65 F041 CTS	66 F042 CTS	67 F043 2 CTS	68 F044 3 CTS	69 F045 CTS	70 F046 5 CTS	71 F047 6 CTS
72 F048 T	73 F049 8 CTS	74 F04A 9 CTS	75	76	77	78	79	80	81	82	83

<u>NOTE</u>: The TROY Enhanced Convenience Amount font can be used in place of the TROY Convenience Amount font in the legal amount field of the check. To write the cents amount on the check, type the capital letter that corresponds to the smaller cent characters shown in the example above (i.e., A=0, B=1, C=2).

TROY Large Convenience Amount 18-Point Font (Troy LCF) <Esc>(1Q<Esc>(sØp5.Øh16.ØvØsØbØT

<u>Key</u>	<u>Char</u>	<u>Key</u>	<u>Char</u>	<u>Key</u>	<u>Char</u>	<u>Key</u>	<u>Char</u>
0	Ø ZERO	5	5 FIVE	\$	\$ DOLLAR	%	€ EURO
1	1 ONE	6	6	*	₩ Ask	&	€
2	2	7	7 SEVEN	,	₽	С	¢
3	3 THREE	8	8 EIGHT		■ PER		
4	4 FOUR	9	9 NINE				

TROY Small Convenience Amount 24-Point Font (Troy SCF) <Esc>(20<Esc>(sØp6.ØØh22.ØvØsØbØT)

/DDC/	(20,000,000	0.001122	2.0000001				
<u>Key</u>	<u>Char</u>	<u>Key</u>	<u>Char</u>	Key	<u>Char</u>	<u>Key</u>	<u>Char</u>
	0		5		\$		€
0	ZERO	5	FIVE	\$	DOLLAR	%	EURO
1	1	6	6	*	*	&	€
•	one 2	Ü	six 7		ASK	ω	
2	TWO	7	SEVEN	,	COM		
3	3	8	8		•		
Ü	THREE 4	Ü	еі с нт 9	•	PER		
4	FOUR	9	NINE				

TROY Security Font (Troy Security)

<Esc> (4Q<Esc> (s1p\subseteq v\psis\psib\psi T = desired point size 32 F020 33 34 24 25 26 27 28 29 30 31 35 F023 ¢ 43 45 38 39 40 41 42 44 46 47 36 37 F025 F026 F02A F02C F02E F02F F024 CÓM 8 E 52 F034 49 50 51 53 54 55 56 57 58 59 48 F032 F033 F035 F036 F037 F038 F039 F030 F031 2 THREE 7 8 9 FOUR 5 6 0

TROY Security Font (Spanish) (Troy Security Spanish)

24 25 26 27 28 29 30 31 32 33 34 35 F020 F023 ¢ 38 39 41 42 43 44 45 36 37 40 46 47 F024 F025 F026 F02A F02C F02E F02F & €

> 54 F036

> > 6

53

F035

5

52

4

<u>NOTE</u>: The TROY Security Spanish Font is included in the International Font Collection provided on the *TROY Font Card Kit* CD.

55

F037

 \Box = desired point size

56

S OCHO

57

NUEVE

59

<Esc> (4Q<Esc> (s1p \square v \emptyset s \emptyset b4T

50

F032

2

51

TRES

49

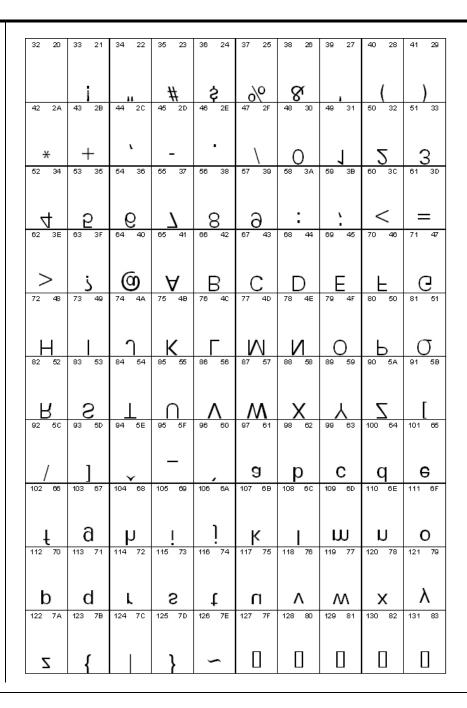
F031

48

F030

0

TROY Reverse Helvetica Font (Troy Helvetica (Rev))





TROY OCR-A (Troy OCR-A)

<Esc>(\emptyset 0<Esc>(s1p \square v \emptyset s \emptyset b1 \emptyset 4T

 \Box = desired point size

24	25	26	27	28	29	30	31	32 0020	33 0021	34 0022	35 0023
36 0024	37 0025	38 0026	39 0027	40 0028	41 0029	42 002A	43 002B	44 ; 002C	45 002D	46 002E	47 002F
48 0030	49 0031	50 0032	51 0033	52 0034	53	54 0036	55 0037	56 0038	57	58 003A	59 003B
60 003C	61 003D	62 003E	63 003F	64 0040	65 0041	66 0042	67 0043	68 0044	69 0045	70 0046	71 0047
72 0048	73 0049	74 004A	75 004B	76 004C	77 004D	78 004E	79 004F	80 0050	81 0051	82 0052	83 0053
84 0054	85 0055	86 0056	87 0057	88 0058	89 0059	90 005A	91 005B	92 005C	93 005D	94 005E	95 005F
96 0060	97 0061	98 0062	99 0063	100 0064	101 0065	102 0066	103 0067	104 0068	105 0069	106 006A	107 006B
108 006C	109 006D	110 006E	111 006F	112 0070	113 0071	114 0072	115 0073	116 0074	117 0075	118 0076	119 0077
120	m	n	123	p	125	r	S	t 128	U	130	W
0078 X	0079 y	007A Z	007B	007C	3	007E	007F	20AC			
132	133	134	135	136	137	138	139 2039	140	141	142	143
144	145 2018	146 2019	147 201C	148 201D	149	150 2013	151 2014	152	153	154	155 203A



TROY OCR-A (continued)

156	157	158	159	160 00A0	161	162 00A2	163 00A3	164	165 00A5	166	167
						 €	£		¥		
168	169	170	171	172	173	174	175	176	177	178	179
180	181	182	183 00B7	184 00B8	185	186	187	188	189	190	191 00BF
			•	7							1
192	193	194	195	196 00C4	197 00C5	198 00C6	199	200	201	202	203
				Ä	A	Æ					
204	205	206	207	208	209 00D1	210	211	212	213	214 00D6	215
					N					Ö	
216 00D8	217	218	219	220 00DC	221	222	223	224	225	226	227
Ø				Ü							

NOTE: This OCR font must be used at the designated point size to ensure optical readability.

- Size I must use 12-point size (upper and lower case characters can be used)
- Size III must use 16-point size (only upper case characters can be used)
- Size IV must use 20-point size (only upper case characters can be used)

TROY OCR-B (Troy OCR-B)

<Esc>(10<Esc>(s1p \square v \emptyset s \emptyset b11 \emptyset T

 \Box = desired point size

24	25	26	27	28	29	30	31	32 0020	33 0021	34 0022	35 0023 #
36 0024	37 0025	38 0026	39 0027	40 0028	41 0029	42 002A	43 002B	44 002C	45 002D	46 002E	47 002F
48 0030	49 0031	50 0032	51 0033	52 0034 4	53 0035	54 0036	55 0037	56 0038 8	57 0039	58 003A	59 003B
60 003C	61 003D	62 003E	63 003F ?	64 0040	65 0041 A	66 0042	67 0043	68 0044	69 0045	70 0046	71 0047 G
72 0048 H	73 0049	74 004A	75 004B	76 004C	77 004D M	78 004E	79 004F	80 0050	81 0051	82 0052	83 0053 S
84 0054	85 0055	86 0056	87 0057	88 0058 X	89 0059	90 005A	91 005B	92 005C	93 005D	94 005E	95 005F
96	97 0061	98 0062	99 0063	100	101	102 0066 f	103 0067	104 0068	105	106 006A	107 006B
108 006C	109 006D	110 006E	111 006F	112 0070	113 0071	114 0072	115 0073	116 0074	117 0075	118 0076	119 0077
120 0078	121 0079	122 007A	123 007B	124 007C	125 007D	126 007E	127 007F	128	129	130 201A	131
132 201E	133 2026	134 2020	135 2021	136 02C6	137 2030	138 0160	139 2039	140 0152	141	142 017D	143
144	145 2018	146 2019	147 201C	148 201D	149 2022	150 2013	151 2014	152 02DC	153 2122	154 0161	155 203A
						_	_		m	Š	>

TROY OCR-B (continued)

157	158	159	160	161	162	163	164	165	166	167
	017E	0178	00A0	00A1	00A2	00A3	00A4	00A5	00A6	00A7
169	170 00AA a	171 00AB	172 00AC	173 00AD	174	175 00AF	176 00B0	177 00B1	178	179
181 00B5	182	183 00B7	184 00B8	185	186 00BA	187 00BB	188	189	190	191 00BF
193	194	195	196	197	198	199	200	201	202	203
00C1	00C2	00C3	00C4	00C5	00C6	00C7	00C8	00C9	00CA	00CB
205	206	207	208	209	210	211	212	213	214	215
00CD	00CE	00CF	00D0	00D1	00D2	00D3	00D4	00D5	00D6	00D7
217	218	219	220	221	222	223	224	225	226	227
00D9	00DA	00DB	00DC	00DD	00DE	00DF	00E0	00E1	00E2	00E3
229	230	231	232	233	234	235	236	237	238	239
00E5	00E6	00E7	00E8	00E9	00EA	00EB	00EC	00ED	00EE	00EF
241	242	243	244	245	246	247	248	249	250	251
00F1	00F2	00F3	00F4	00F5	00F6	00F7	00F8	00F9	00FA	00FB
253 00FD	254 00FE	255 00FF	256 E000	257 E001	258 E002	Ť	\(\mathcal{D} \)	u	u	u
	181 00B5 193 00C1 Á 205 00CD Ú 229 00E5 8 241 00F1	169 170 00AA a a 181 00B5	To To To To To To To To	Total	The image of the	The color of the	169	169	To 170 171 172 173 174 175 176 177 181 182 183 184 185 185 186 187 188 189	To To To To To To To To

 $\underline{\text{NOTE}}\text{: This OCR font must be used at the designated point size to ensure optical readability.}$

- Size I must use 10-point size (upper and lower case characters can be used)
- Size III (not supported)
- Size IV must use 16-point size (upper and lower case characters can be used)



TROY UPC-A Barcode



TROY UPC-E Barcode



TROY EAN-8 Barcode



TROY EAN-13 Barcode <Esc> (8Y<Esc> (s1p \bigcirc v \emptyset s \emptyset b2463 \emptyset T □ = desired height 96 60 97 122 7A 123 7B 124 7C 125 7D 126 7E 127 7F 128 80 129 81 130 82 131 83 142 8E 143 8F 144 90 145 91 146 92 147 93 148 94 149 95 150 96 151 97 162 A2 163 A3 164 A4 165 A5 166 A6 167 A7 168 A8 169 A9 170 AA 171 AB 172 AC 173 AD 174 AE 175 AF 176 BO 177 B1 178 B2 179 B3 180 B4 181 B5 182 B6 183 B7 184 B8 185 B9 186 BA 187 BB 188 BC 189 BD 190 BE 191 BF



TROY BC25 Barcode <Esc> (4Y<Esc> (s1p \square v \emptyset s \emptyset b2464 \emptyset T

□ = desired height

32 20	33 21	34 22	35 23	36 24	37 25	38 26	39 27	40 28	41 29
42 2A	43 2B	44 2C	45 2D	46 2E	47 2F	48 30	49 31	50 32	51 33
52 34	53 35	54 36	55 37	56 38	57 39	58 3A	59 3B	60 3C	61 3D
62 3E	63 3F	64 40	65 41	66 42	67 43	68 44	69 45	70 46	71 47
72 48	73 49	74 4A	75 4B	76 4C	77 4D	78 4E	79 4F	80 50	81 51
82 52	83 53	84 54	85 55	86 56	87 57	88 58	89 59	90 5A	91 5B
92 5C	93 5D	94 5E	95 5F	96 60	97 61	98 62	99 63	100 64	101 65
102 66	103 67	104 68	105 69	106 6A	107 6B	108 6C	109 6D	110 6E	111 6F
112 70 ∥ ∥ ∎	113 71	114 72	115 73	116 74	117 75	118 76	119 77	120 78	121 79
122 7A	123 7B	124 7C	125 7D	126 7E	127 7F	128 80	129 81	130 82	131 83
122 7A 132 84	123 7B	124 7C	125 7D 135 87	126 7E	127 7F	128 80 	129 81 139 8B	130 82 140 8C	131 83
132 84	133 85	134 86	135 87	136 88	137 89	138 8A	139 8B	140 8C	141 8D
132 84 142 8E	133 85 143 8F	134 86	135 87 145 91	136 88 146 92	137 89 147 93	138 8A 148 94	139 8B	140 8C	141 8D
132 84 142 8E 152 98	133 85 143 8F 153 99	134 86 144 90	135 87 145 91 155 9B	136 88 146 92 156 9C	137 89 147 93 157 9D	138 8A 148 94 158 9E	139 8B 149 95 159 9F	140 8C 150 96	141 8D 151 97
132 84 142 8E 152 98	133 85 143 8F 153 99	134 86 144 90 154 9A	135 87 145 91 155 9B	136 88 146 92 156 9C	137 89 147 93 157 9D	138 8A 148 94 158 9E	139 8B 149 95 159 9F 169 A9	140 8C 150 96 160 A0 170 AA	141 8D 151 97 161 A1 171 AB

TROY BC39 Barcode $\langle Esc \rangle (\emptyset Y \langle Esc \rangle (s1p \nabla \emptyset s \emptyset b2467 \emptyset T) = desired height$

32	20	33	21	34	22	35	23	36	24	37	25	38	26	39	27	40	28	41	29
							8												
42	2A	43	2B	44	2C	45	2D	46	2E	47	2F	48	30	49	31	50	32	51	33
52	34	53	35	54	36	55	37	56	38	57	39	58	3A	59	3B	60	3C	61	3D
62	3E	63	3F	64	40	65	41	66	42	67	43	68	44	69	45	70	46	71	47
							-								Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whi				
72	48	73	49	74	4A	75	4B	76	4C	77	4D	78	4E	79	4F	80	50	81	51
							-												
82	52	83	53	84	54	85	55	86	56	87	57	88	58	89	59	90	5A	91	5B
92	5C	93	5D	94	5E	95	5F	96	60	97	61	98	62	99	63	100	64	101	65
102	66	103	67	104	68	105	69	106	6A	107	6B	108	6C	109	6D	110	6E	111	6F
112	70	113	71	114	72	115	73	116	74	117	75	118	76	119	77	120	78	121	79
122	7A	123	7B	124	7C	125	7D	126	7E	127	7F	128	80	129	81	130	82	131	83
132	84	133	85	134	86	135	87	136	88	137	89	138	8A	139	8B	140	8C	141	8D
142	8E	143	8F	144	90	145	91	146	92	147	93	148	94	149	95	150	96	151	97
152	98	153	99	154	9A	155	9B	156	9C	157	9D	158	9E	159	9F	160	A0	161	A1
162	A2	163	А3	164	A4	165	A5	166	A6	167	A7	168	A8	169	A9	170	AA	171	AB
172	AC	173	AD	174	AE	175	AF	176	B0	177	B1	178	B2	179	ВЗ	180	B4	181	B5
182	В6	183	В7	184	B8	185	В9	186	BA	187	BB	188	ВС	189	BD	190	BE	191	BF

TROY BC128 Barcode



TROY POSTNET



 \Box = desired height

TROY POSTNET Reverse (optional)

182 B6 183 B7 184 B8 185 B9 186 BA 187 BB 188 BC 189 BD 190 BE 191 BF

<Esc>(15Y<Esc> $(s1p<math>\square$ v \emptyset s33b2477 \emptyset T



International Convenience Amount Fonts In addition to the CMC-7 font used for International MICR applications, TROY provides the following Convenience Amount font sets in a variety of languages (see examples below). These fonts are provided only on the *TROY Font Card Kit* CD. These fonts can be easily downloaded into the printer's memory using the TROY Printer Utility.

The following TROY International fonts are non-scalable (fixed in size) and can be used in the *convenience* amount field of the check. The escape sequence used to call each font set in a non-Windows environment is provided directly above each example. The examples below may not be to scale.

British Large Convenience Amount Font (Troy LCF British)

 $\langle Esc \rangle (1Q \langle Esc \rangle (s \emptyset p 5.14h 16.09v \emptyset s \emptyset b 1T)$

1 2 3 4 5 6 7 8 9 0 $\mathbf{f} \in \mathbf{f}$

French Large Convenience Amount Font (Troy LCF French)

<Esc>(1Q<Esc>(sØp5.14h16.Ø9vØsØb2T

Italian Large Convenience Amount Font (Troy LCF Italian)

 $\langle Esc \rangle (1Q \langle Esc \rangle (s@p5.14h16.@9v@s@b3T)$

1 2 3 4 5 6 7 8 9 0 $\mathbf{f} \in \mathbf{f} \in \mathbf{f}$

Spanish Large Convenience Amount Font (Troy LCF Spanish)

 $<\!\!\text{Esc>} (1Q\!\!<\!\!\text{Esc>}(s\emptyset p5.14h16.\emptyset9v\emptysets\emptysetb4T$

1 2 3 4 5 6 7 8 9 0 \$ \in * ...



International Convenience Amount Fonts (cont.)

British Small Convenience Amount Font (Troy SCF British)

<Esc>(2Q<Esc>(sØp6h22.68vØsØb1T

1 2 3 4 5 6 7 8 9 0 £ € € * , .

ONE TWO THREE FOUR FIVE SIX SEVEN EIGHT NINE ZERO G.B.P. EURO ASK COM PER

French Small Convenience Amount Font (Troy SCF French)

<Esc> (2Q<Esc> (sØp6h22.68vØsØb2T

1 2 3 4 5 6 7 8 9 0 FF € € * , .

UN DEUX TROIS QUATRE CINQ. SIX SEPT HUIT NEUF ZERO FRANC EURO AST VIRG POINT

Italian Small Convenience Amount Font (Troy SCF Italian)

<Esc>(2Q<Esc>(sØp6h22.68vØsØb3T

1 2 3 4 5 6 7 8 9 0 £ € € * ,

UNO DUE TRE QUATRO CINQUE SEI SETTE OTTO NOVE ZERO LIRA EURO AST VIRG PUNTO

Spanish Small Convenience Amount Font (Troy SCF Spanish)

<Esc> (2Q<Esc> (s \emptyset p6h22.68v \emptyset s \emptyset b4T

1 2 3 4 5 6 7 8 9 0 \$ € € * , .

UNO DOS TRES CUATRO CINCO SEIS SIETE OCHO NUEVE CERO DOLAR EURO AST COMA PUNTO

PCL Font Collection

In addition to the TROY Security Printing fonts contained on the TROY Font Card, an extensive collection of PCL fonts have been included on the TROY Font Card as a value-added convenience to suit a wide variety of printing needs. Refer to the following pages for the PCL font list. The following examples may not be to scale.



Using TROY Fonts

Typeface	Pitch/Point	Escape sequence	Font #
ABCDEfghijÀ°ÇÑ; Courier	Scale	<esc>(<esc>(s0p h0s0b4099</esc></esc>	PT M1 0
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v0s0b4101</esc></esc>	T M1 1
${\displaystyle \mathop{\mathbf{ABCDEfghij\hat{A}\hat{A}}}_{CG}}^{c}_{Times}^{Times}{\displaystyle \mathop{Bd}}^{Bd}$	Scale	<esc>(<esc>(s1p v0s3b4101</esc></esc>	T M1 2
$ABCDEfghij\grave{A}\hat{A}^{\circ} C ilde{N}_{i}$	Scale	<esc>(<esc>(s1p v1s0b4101</esc></esc>	T M1 3
$ABCDEfghij \hat{A} \hat{A} \circ ilde{C} ilde{N}_i$ CG Times BdIt	Scale	<esc>(<esc>(s1p v1s3b4101</esc></esc>	T M1 4
ABCDEfghijÀ°ÇÑ; cg Omega	Scale	<esc>(<esc>(s1p v0s0b4113</esc></esc>	T M1 5
ABCDEfghijÀ°ÇÑ; CG Omega Bd	Scale	<esc>(<esc>(s1p v0s3b4113</esc></esc>	T M1 6
ABCDEfghijÀ°ÇÑ; cg Omega It	Scale	<esc>(<esc>(s1p v1s0b4113</esc></esc>	т м17
ABCDEfghijÀ°ÇÑ; CG Omega BdIt	Scale	<esc>(<esc>(s1p v1s3b4113</esc></esc>	т м18
ABCDEfghij À ° ÇÑj Coronet	Scale	<esc>(<esc>(s1pv1s0b4116</esc></esc>	т м1 9
ABCDEfghijÀ°ÇÑ; Clarendon CdBd	Scale	<esc>(<esc>(s1p v4s3b4140</esc></esc>	T M1 10
ABCDEfghijÀ°ÇÑ¡ Univers Md	Scale	<esc>(<esc>(s1p v0s0b4148</esc></esc>	т м1 11
ABCDEfghijÀ°ÇÑ _i Univers Bd	Scale	<esc>(<= <esc>(s1p</esc></esc>	T M1 12
<i>ABCDEfghijÀ°ÇÑj</i> ∪nivers MdIt	Scale	<esc>(<esc>(s1p v1s0b4148</esc></esc>	T M1 13
ABCDEfghijÀ°ÇÑ j Univers BdIt	Scale	<esc>(<esc>(s1p v1s3b4148</esc></esc>	T M1 14
ABCDEfghijÀ°ÇÑ¡ Univers CdMd	Scale	<esc>(<esc>(s1p v4s0b4148</esc></esc>	T M1 15
ABCDEfghijÀ°ÇÑ Univers CdBd	Scale	<esc>(<esc>(s1p v4s3b4148</esc></esc>	T M1 16
<i>ABCDEfghijÀ°ÇÑj</i> Univers CdMdlt	Scale	<esc>(<esc>(s1p v5s0b4148</esc></esc>	T M1 17
ABCDEfghijÀ°ÇÑ j Univers CdBdIt	Scale	<esc>(<esc>(s1p</esc></esc>	T M1 18
ABCDEfghijÀ°ÇÑi AntiqOlive	Scale	<esc>(<esc>(s1p v0s0b4168</esc></esc>	T M1 19



ABCDEfghijÀ°ÇÑ; AntiqOlive Bd	Scale	<esc>(<esc>(s1p v0s3b4168T</esc></esc>	M1 20
<i>ABCDEfghijÀ°ÇÑj</i> AntiqOlive It	Scale	<esc>(<esc>(s1p v1s0b4168T</esc></esc>	M1 21
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v0s0b4197T</esc></esc>	M1 22
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v0s3b4197T</esc></esc>	M1 23
$ABCDEfghij \lambda \hat{A} \circ \zeta ilde{N}_i$ Garamond Krsv	Scale	<esc>(<esc>(s1p v1s0b4197T</esc></esc>	M1 24
$ABCDEfghij\grave{A}\hat{A}\circ \zeta \widetilde{N}_{i}$ Garamond KrsvHlb	Scale	<esc>(</esc>	M1 25
ABCDEſghíjÀ°ÇÑ; Marigold	Scale	<esc>(<esc>(s1p v0s0b4297T</esc></esc>	M1 26
ABCDEfghijÀ°ÇÑ¡ Albertus Md	Scale	<esc>(</esc>	M1 27
ABCDEfghijÀ°ÇÑ; Albertus Xb	Scale	<esc>(</esc>	M1 28
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(</esc>	M1 29
ABCDEfghijÀ°ÇÑ; Arial Bd	Scale	<esc>(<esc>(s1p v0s3b16602T</esc></esc>	M1 30
ABCDEfghijÀ°ÇÑ; Arial It	Scale	<esc>(<esc>(s1p v1s0b16602T</esc></esc>	M1 31
ABCDEfghijÀ°ÇÑ j Arial BdIt	Scale	<esc>(<esc>(s1p v1s3b16602T</esc></esc>	M1 32
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(</esc>	M1 33
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v0s3b16901T</esc></esc>	M1 34
$ABCDEfghij\grave{A}\hat{A}^{\circ}\zeta ilde{N}_{j}$ TimesNewRmn It	Scale	<esc>(====================================</esc>	M1 35
$ABCDEfghij \widehat{A} \widehat{A}$ ° $\widehat{C} \widehat{N}_i$ TimesNewRmn BdIt	Scale	<esc>(====================================</esc>	M1 36
ABCDEfghijÀ°ÇÑ¡	Scale	<esc>(<esc>(s1p v0s0b24580T</esc></esc>	M1 37
ABCDEfghijÀ°ÇÑ; Helvetica Bd	Scale	<esc>(<esc>(s1p v0s3b24580T</esc></esc>	M1 38
<i>ABCDEfghijÀ°ÇÑ;</i> Helvetica Ob	Scale	<esc>(<esc>(s1p v1s0b24580T</esc></esc>	M1 39
ABCDEfghijÀ°ÇÑ; Helvetica BdOb	Scale	<esc>(<esc>(s1p v1s3b24580T</esc></esc>	M1 40



ABCDEfghijÀ°ÇÑ¡	Scale	<esc>(<esc>(s1p v4s0b24580T</esc></esc>	M1	41
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(</esc>		42
ABCDEfghijÀ°ÇÑ; Helvetica NrOb	Scale	<esc>(<esc>(s1p v5s0b24580T</esc></esc>	м1	43
ABCDEfghijÀ°ÇÑ ¡ Helvetica NrBdOb	Scale	<esc>(</esc>	м1	44
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(</esc>	м1	45
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v0s3b24591T</esc></esc>	м1	46
$ABCDEfghij\grave{A}\hat{A}^{\circ} \hat{\zeta} \tilde{N}_{j}$ Palatino It	Scale	<esc>(<esc>(s1p v1s0b24591T</esc></esc>	M1	47
ABCDEfghijÀ°ÇÑ; Palatino BdIt	Scale	<esc>(<esc>(s1p v1s3b24591T</esc></esc>	м1	48
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1pv0s0b24607T</esc></esc>	м1	49
ABCDEfghijÀ°ÇÑi ITCAvantGard Db	Scale	<esc>(<esc>(s1p v0s2b24607T</esc></esc>	м1	50
ABCDEfghijÀ°ÇÑ; ITCAvantGardBk0b	Scale	<esc>(<esc>(s1p v1s0b24607T</esc></esc>	M1	51
ABCDEfghijÀ°ÇÑ; ITCAvantGardDbOb	Scale	<esc>(<esc>(s1p v1s2b24607T</esc></esc>	м1	52
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v0s-3b24623T</esc></esc>	м1	53
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v0s2b24623T</esc></esc>	м1	54
ABCDEfghijÀ°ÇÑ; ITCBookman LtIt	Scale	<esc>(<esc>(s1p v1s-3b24623T</esc></esc>	м1	55
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v1s2b24623T</esc></esc>	м1	56
$\begin{array}{c} ABCDEfghij\grave{A}\hat{A}^{\circ} \tilde{CN}; \\ \text{NwCentSchlbk Rmn} \end{array}$	Scale	<esc>(<esc>(s1p v0s0b24703T</esc></esc>	м1	57
ABCDEfghijÀ°ÇÑ;	Scale	<esc>(<esc>(s1p v0s3b24703T</esc></esc>	м1	58
$ABCDEfghij\dot{A}\hat{A}^{\circ} C ilde{N}_{i}$	Scale	<esc>(<esc>(s1p v1s0b24703T</esc></esc>	M1	59
$ABCDEfghij \lambda \hat{A}^{\circ} C \tilde{N}_{i}$ NwCentSchlbkBdIt	Scale	<esc>(<esc>(s1p v1s3b24703T</esc></esc>	M1	60
$\underset{\text{Times}}{ABCDEfghij}\grave{A}\hat{A}^{\circ} \tilde{\varsigma N_{i}}$	Scale	<esc>(<esc>(s1p v0s0b25093T</esc></esc>	м1	61



ABCDEfghijÀ°ÇÑ;	Scale	<esc>(</esc>	M1 62
$ABCDEfghij\lambda\hat{A}^{\circ}\zeta ilde{N}_{i}$ Times It	Scale	<esc>(<esc>(s1p</esc></esc>	M1 63
$ABCDEfghij\lambda\hat{A}\circ ilde{C} ilde{N}_i$ Times BdIt	Scale	<esc>(<esc>(s1p</esc></esc>	M1 64
ЯВСDEfghijÀ°ÇÑj ZapfChanceryMdIt	Scale	<esc>(<esc>(s1p v1s0b45099T</esc></esc>	M1 65
$ABX\Delta E \phi \gamma \eta \iota \phi \Upsilon' \geq \times \partial \div$ symbol	Scale	<esc>(19M<esc>(s1p v0s0b16686T</esc></esc>	M1 66
ΑΒΧΔΕφγηιφΥ'≥×∂÷ symbolps	Scale	<esc>(19M<esc>(s1p v0s0b45358T</esc></esc>	M1 67
#\$\$\$\$\$XY6#H&TOOD O ⊕¤ Wingdings	Scale	<esc>(579L<esc>(s1p 000000000000000000000000000000000000</esc></esc>	M1 68
ABCDEfghij ¢	Scale	<esc>(9U<esc>(s1p 00s33b24580T</esc></esc>	M1 83
☆+・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	Scale	<esc>(14L<esc>(s1p v0s0b45101T</esc></esc>	M1 84
Postnet Reg	Scale	<esc>(15Y<esc>(s1p 0000b24770T</esc></esc>	M1 85
Postnet Rev	Scale	<esc>(15Y<esc>(s1p 0033b24770T</esc></esc>	M1 86
ABCDEfghijÀ°ÇÑ; Courier Bd	Scale	<esc>(<esc>(s0p h0s3b4099T</esc></esc>	M1 87
ABCDEfghijÀ°ÇÑ; Courier It	Scale	<esc>(<esc>(s0p h1s0b4099T</esc></esc>	M1 88
<i>ABCDEfghijÀ°ÇÑ;</i> Courier BdIt	Scale	<esc>(<esc>(s0p h1s3b4099T</esc></esc>	M1 89
ABCDEfghijÀ°ÇÑ;¿£ LetterGothic	Scale	<esc>(<esc>(s0p h0s0b4102T</esc></esc>	M1 90
ABCDEfghijÀ°ÇÑ¡¿£	Scale	<esc>(<esc>(s0p h0s3b4102T</esc></esc>	M1 91
$ABCDEfghij\lambda\hat{A}^{\circ}\zeta\tilde{N}_{i};\pounds$ LetterGothic It	Scale	<esc>(<esc>(s0p h1s0b4102T</esc></esc>	M1 92
ABCDEfghij#\$@"^\{ }~1	Scale	<esc>(</esc>	M1 93
ABCDEfghij#\$@"^\{ }~1	Scale	<esc>(< > < 1 < < < <</esc>	M1 94
ABCDEfghij#\$@"^\{ }~1 Koufi	Scale	<esc>(<esc>(s0p h0s0b4264T</esc></esc>	M1 95
ABCDEfghij#\$@"^\{ }~1 Koufi Bd	Scale	<esc>(</esc>	M1 96



Using TROY Fonts

ABCDEfghijÀ°ÇÑ; CourierPS	Scale	<esc>(<esc>(s0p h0s0b24579T</esc></esc>	M1 97
ABCDEfghijÀ°ÇÑ ; CourierPS Bd	Scale	<esc>(<esc>(s0p h0s3b24579T</esc></esc>	M1 98
$ABCDEfghij \grave{A} \hat{A} {}^{\circ} C \tilde{N} ;$ CourierPS Ob	Scale	<esc>(<esc>(s0p h1s0b24579T</esc></esc>	M1 99
ABCDEfghijÀ°ÇÑ; CourierPS BdOb	Scale	<esc>(<esc>(s0p h1s3b24579T</esc></esc>	M1 100
ABCDEfghijüfüóü ü ü üqü üqülü±#\$a¢%^^ Line Printer	16.67/8.5	<esc>(10U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 101
ABCDEfghijüfüóü ü ü ü ü ü ü ^l ü ^l ü ^l ü ^l ü ^l ü ^l #\$a¢%^` Line Printer	16.67/8.5	<pre><esc>(10U<esc>(s0p16.67h8.5v0s0b0T</esc></esc></pre>	M1 102
ABCDEfghijÀŰÇÑ _{i¿} £§ê#\$@"^\ Line Printer	16.67/8.5	<esc>(8U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 103
ABCDEfghijÀ°ÇÑ¡¿£§ê#\$@"^\ Line Printer	16.67/8.5	<esc>(8U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 104
ABCDEfghiji¢¹´¶¸¹»½Á#\$@«^` Line Printer	16.67/8.5	<esc>(0N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 105
ABCDEfghiji¢³´¶¸¹»½Á#\$@«^` Line Printer	16.67/8.5	<esc>(0N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 106
ABCDEfghijüfüóü ü ü ü ü ü ü ü #\$aøℓ^` Line Printer	16.67/8.5	<esc>(11U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 107
ABCDEfghijüfüóü ü¦ü¦ü¦ü¦ü³ü [⊥] #\$aøℓ^` Line Printer	16.67/8.5	<esc>(11U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 108
ABCDEfghijüfüóü ü¦üÂü©ü∦ü _¶ ü¢ü [⊥] #\$aø½^` Line Printer	16.67/8.5	<esc>(12U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 109
ABCDEfghijüfüóü ü¦üÄü©ü∥ü _¶ ü¢ü [⊥] #\$aø½^` Line Printer	16.67/8.5	<esc>(12U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 110
ABCDEfghij#\$⊕ ©°§¶†№123 Line Printer	16.67/8.5	<esc>(1U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 111
ABCDEfghij#\$∂ ©°§¶†№123 Line Printer	16.67/8.5	<esc>(1U<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 112
ABCDEfghij¡¢³´¶¸'»½Á#\$@«^` Line Printer	16.67/8.5	<esc>(5N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 119
ABCDEfghij;¢³´¶.¹»½Á#\$@«^` Line Printer	16.67/8.5	<esc>(5N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 120
ABCDEfghijĄĒģīķļdŧ—Á#\$@Ŧ^` Line Printer	16.67/8.5	<esc>(6N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 121
ABCDEfghijĄĒģīķļdŧ—Á#\$@Ŧ^` Line Printer	16.67/8.5	<esc>(6N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 122
ABCDEfghiji¢³Ž¶ž¹»œÁ#\$â≪^` Line Printer	16.67/8.5	<esc>(9N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 125
ABCDEfghij¡¢³Ž¶ž¹»œÁ∰\$â≪^` Line Printer	16.67/8.5	<esc>(9N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 126
ABCDEfghijËъгДЖИЙЛНС#\$@Ћ^` Line Printer	16.67/8.5	<esc>(10N<esc>(s0p16.67h8.5v0s0b0T</esc></esc>	M1 127



Troubleshooting by Symptom

The following troubleshooting table provides solutions to the most common MICR printing problems. Some of the messages may not apply to your TROY Security Printing Solution. Visually inspect your MICR documents using the *TROY MICR Document Template* where appropriate.

NOTE: This table does not cover all of the ANSI and banking specifications that MICR-encoded documents must meet. Refer to the *TROY MICR Basics Handbook* for more information on MICR specifications and check design.

Condition	Possible Cause	Solution
Incorrect data in MICR line (account #, bank #, etc.).	Error typing in the account #, etc.	Re-enter the correct data.
Incorrect format of fields in MICR line (according to your bank's specifications).	Error typing in the field information.	Re-enter the correct data. Ask your bank for its specification sheet or copy the field format from your old checks, including any spaces.
Vertical streaking or smearing throughout document.	Problem with the Hewlett-Packard printer or TROY MICR toner cartridge.	Refer to the troubleshooting section in the printer user's manual.
Horizontal streaking in MICR clear band during document processing.	Problem with the reader/sorter machine.	The reader/sorter machine must be cleaned and checked or adjusted.



600 dpi MICR font not used in MICR line (an incorrect font such as Courier or Times Roman was used instead).	No MICR font installed.	Install the TROY Font DIMM and reprint the document.
or Times Nomair was used instead).	MICR mode disabled and an attempt was made to use a TROY MICR font.	Consult your software dealer.
	Software error.	Enable MICR mode by issuing the appropriate escape sequence via your check writing software.
	MICR font requested orientation (portrait or landscape) not installed in the printer.	Install the correct orientation of MICR font via system DIMM.
	Non-TROY MICR font was used.	Use the TROY MICR font or consult the non-TROY MICR font manufacturer for assistance.
	Font escape sequence coding error.	Verify the escape sequence accuracy.
MICR clear band has magnetically chargeable printing besides the MICR line on front or backside of document.	Border, signature, or other printing extends into MICR clear band on front or back.	Reformat your document design to ensure nothing besides the MICR line appears in the MICR clear band.
	Laser-printed items extend into MICR clear band on backside of the check.	Reformat your document design or other laser-printed items so that there is no MICR information in the clear band on the backside of the check.



MICR clear band has extra printing (such as toner splatter) besides the	Printer density setting is too dark.	Use TROY MICR defaults.
MICR line on front or backside of document.	Printer fusing unit is contaminated.	Refer to printer user's manual for cleaning instructions.
	Faulty MICR toner cartridge.	Try another TROY MICR toner cartridge. If cartridge is faulty, return to the dealer.
	Use of non-TROY MICR toner cartridge.	Use a TROY MICR toner cartridge, or consult TROY Technical Support for assistance.
MICR line is skewed on document.	Your MICR paper was cut or perforated inaccurately (lower edge of paper is not perpendicular to the right and left edges of paper).	Measure your MICR paper and/or perforation lines to ensure your MICR-encoded documents fall within ANSI specifications for document size. Ask your paper vendor for correctly sized MICR paper.
	Your MICR paper has changed properties due to environmental conditions in storage or handling.	Measure your MICR paper and/or perforation lines to ensure your MICR-encoded documents fall within ANSI specifications for document size.
	Paper incorrectly loaded.	If using MP tray, paper width guide should lightly touch right side of paper stack.
	Faulty paper transport system in printer.	Try non-MICR paper to verify the problem. Contact TROY Technical Support if problem is verified on non-MICR paper.



MICR line not positioned correctly on Your MICR paper was cut or Measure your MICR paper and/or the document (vertically and perforated inaccurately (paper is too perforation lines to ensure your MICRencoded documents fall within ANSI horizontally). short/long or narrow/wide). specifications for document size. Ask your paper vendor for correctly sized MICR paper. Software registration is off (software Make adjustments in your software is positioning data incorrectly on the application to adjust the positioning of the MICR line. Use the TROY MICR printed page). Document Template to verify all adjustments to the MICR line. Printer registration discrepancies Small errors in the printer's registration can change the position of the MICR (small inconsistencies in positioning line, which is most noticeable on the of the image on the printed page) trailing edge of the printed page. If the MICR line on your checks is positioned on trailing edge of the page (the edge of the page that exits the printer last), try using the TROY printer's Auto-Rotate feature to place the MICR line on the leading edge of the page to avoid any small registration errors that would significantly change the position of the MICR on your printed checks. Faulty paper transport system in Measure your MICR paper. If cut to correct size, consult your software printer. vendor for assistance. Try non-MICR paper to verify the problem. Consult the printer user's manual or TROY Technical support if problem is verified on non-MICR paper.



MICR characters are too thick or too thin.	Printer density setting is too dark or too light.	Use TROY MICR defaults.
	Your MICR toner cartridge is nearly empty.	TROY MICR toner cartridge should not be used if any print fading is visible across the document.
	Your MICR paper is out of specification so that toner does not adhere properly to the paper.	Refer to TROY MICR paper specifications elsewhere in this guide and consult your paper vendor to ensure you have the correct paper (including correctly preprinted background areas). Also, check to ensure your paper has not altered due to environmental conditions during storage and handling.
	Faulty MICR toner cartridge.	Try another TROY MICR toner cartridge. If the cartridge is faulty, contact TROY Technical Support for assistance.
	Use of Non-TROY MICR toner or font.	Use TROY MICR toner or font, or consult TROY Technical Support for assistance.



MICR characters are broken, there are voids in characters or toner rubs off.	Your MICR paper is out of specification so that toner does not adhere properly to the paper.	Refer to the TROY MICR paper specifications and consult your paper vendor to ensure you have the correct paper (including correctly preprinted background areas). Also, check to ensure your paper has not altered due to environmental conditions during storage and handling.
	Faulty MICR toner cartridge.	Try another TROY MICR toner cartridge. If cartridge is faulty, return to dealer.
	Use of Non-TROY MICR toner cartridge.	Use a TROY MICR toner cartridge, or consult TROY Technical Support for assistance.
	Printer fusing unit is faulty.	Confirm by verifying with a non-MICR application. Contact TROY Technical Support for instructions.
Voids in characters in MICR line or other text.	Transfer roller wear (check for page count of greater than 100,000).	Replace transfer roller.
MICR character spacing and positioning are not correct.	Error in typing MICR line information.	Re-enter correct data. (Do not forget to enter the correct number of spaces where required.) If using TROY MICR fonts in Windows, ensure the point size is set to 12 pt.
	Software placement of characters is incorrect.	Consult your software dealer.



Your bank reports a high reject rate when processing your TROY MICR-printed documents.

NOTE: This section covers conditions not addressed above. You should also investigate all of the items described above as possible causes of bank rejects as well as the other ANSI MICR specifications not covered in this table.

A Non-TROY MICR toner was used.

The bank-of-deposit made a typing or imprinting error when they encoded the check AMOUNT onto the right end of the MICR line.

Your MICR paper is out of specification so that your documents tend to jam or tear inside bank processing equipment.

Documents were folded, spindled, or otherwise roughly handled before they reached the bank-of-deposit.

Your bank's reader/sorter equipment is out of adjustment.

Print test documents using TROY MICR toner or consult the non-TROY manufacturer for assistance.

Ask your bank or one of the document testing facilities in the list following this table to determine if the MICR line error is in the TROY MICR-printed portion of the bank-encoded portion (many errors are bank induced).

Observe the condition of your processed checks. Refer to this guide for information on TROY and ANSI MICR paper specifications. Your paper vendor or bank may also provide assistance.

Consider sturdier MICR paper or improved check-handling processes with your regular recipients.

Ask your bank for assistance in determining the cause of your rejects.



MICR characters appear smeared after processing by a bank.	A Non-TROY MICR toner was used.	Print test documents using TROY MICR toner or consult the non-TROY manufacturer for assistance.
	Your MICR paper is out of specification so that toner does not adhere properly to the paper.	Refer to TROY MICR paper specifications and consult your paper vendor to ensure you have the correct paper (including correctly preprinted background areas). Also, check to ensure your paper has not altered due to environmental conditions before printing the checks.
	Your bank's reader/sorter equipment is out of adjustment.	Ask your bank for assistance in determining the cause of your rejects.



Software Uninstall Procedures

Uninstall the TROY Screen Fonts

Uninstall the TROY Support Files

In the event you wish to reinstall or permanently remove the TROY Security Printing Solution support files and utilities, use the following procedures to properly uninstall (remove) all TROY software from your computer.

- 1. Close all applications before uninstalling the TROY screen fonts.
- 2. From the Start menu, click on Settings, and then click on Control Panel.
- 3. Double-click on the *Fonts* folder icon. Locate the TROY screen font installed (refer to the MICR font facsimile example on the previous page for font names).
- 4. Right-click on the TROY screen font to be uninstalled, and then click on *Delete* from the pull-down menu. A confirmation window will appear with the prompt, "*Are you sure you want to delete these fonts?*". Click on *YES* to confirm the deletion. The TrueType MICR screen font will be removed.
- 5. Repeat steps two and three for each TROY screen font to be uninstalled.
- 6. Close the *Fonts Folder* and *Control Panel*.
- 7. If removing all the TROY support files, proceed to the next section for removing all the TROY support files for Microsoft® Windows.

1. Close all applications before uninstalling the TROY support files.

- 2. From the *Start* menu, click on *Settings*, and then click on *Printers*.
- 3. Right-click on the *Hewlett Packard LaserJet PCL 5e* (or renamed TROY printer) printer icon, and then click on *Properties* from the pull-down menu.
- 4. Click on the *Configure* tab located at the top of the *Properties* window.
- 5. Click on the *More* button located within the *Other Options* category.
- 6. Click on the *Configure...* button located within the *Fonts* category.
- 7. Within the *Configure Font Cards* window, locate the section labeled *Installed Cards*. Click on <u>TROY</u> <u>Security Font Collection</u> listed under *Installed Cards* (<u>TROY International Security Font Collection</u> for international support). Click on *Remove* to uninstall the TROY support files. The entry will be deleted from the *Installed Cards* list.
- 8. Close all remaining open windows. All the TROY support files have been removed.



Uninstall the TROY Printer Utility

- 1. Close all applications before uninstalling the TROY Printer Utility files.
- 2. From the *START* menu, click on *Settings*, and then click on *Control Panel*.
- 3. Click on Add/Remove Programs.
- 4. Locate the *TROY Printer Utility* from the listing.
- 5. Click on *Add/Remove*.
- 6. Follow the screen prompts.
- 7. Close all remaining open windows. The TROY Printer Utility files have been removed.



Installing the TROY Font Card



<u>IMPORTANT</u>: Ensure the printer power is switched OFF, and then disconnect the printer power cord from the printer.

- 1. Remove the plastic panel on the right side of the printer by sliding it toward the back of the printer (Figure 1).
- 2. Open the metal access door (Figure 2).
- 3. Remove the TROY Font Card from the protective anti-static bag.
- 4. Carefully insert the TROY Font Card into the first USB slot at the bottom of the electronics cage (Figure 3, 4). The TROY Font Card connector and USB slot are keyed, allowing the TROY Font Card to be plugged into the USB slot in one orientation only. Do not force the Font Card into the USB slot. Ensure the TROY Font Card is fully inserted into the USB slot.



Figure 1

- 5. Close the metal access door. Be sure it snaps into place and is fully closed.
- 6. Replace the plastic panel by sliding it onto the side of the printer until it snaps into place.
- 7. Reconnect the printer power cord, and then switch the printer power ON.
- 8. Refer to the *TROY Quick-Start Guide* for instructions on installing the TROY support files on your computer.

NOTE: If assistance is required, call TROY Technical Support at (800) 332-6427, Monday through Friday, 8:00 AM to 8:00 PM, Eastern Standard Time. Customers outside the United States, please call (304) 232-0899.







Figure 2

Figure 3

Figure 4

